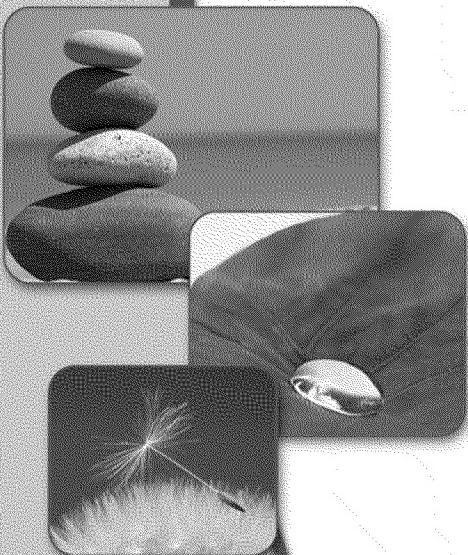


TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-117013-2

Client Project/Site: Gold King Mine - Region 8

For:

Weston Solutions, Inc.

1435 Garrison Street

Suite 100

Lakewood, Colorado 80215

Attn: Moira Pryhoda

Sheila Hoffman

Authorized for release by:

10/14/2015 12:01:18 PM

Sheila Hoffman, Project Manager II

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Method Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Method	Method Description	Protocol	Laboratory
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TestAmerica Savannah

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

Sample Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-117013-1	CC06_092115_1300	Solid	09/21/15 13:00	09/23/15 00:00

TestAmerica Savannah

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Job ID: 680-117013-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Weston Solutions, Inc.

Project: Gold King Mine - Region 8

Report Number: 680-117013-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 09/23/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6 C.

DIOXINS AND FURANS

Sample CC06_092115_1300 (680-117013-1) was analyzed for dioxins and furans in accordance with EPA Method 8290A. The samples were prepared on 09/25/2015 and analyzed on 09/29/2015.

Several analytes were detected in method blank MB 320-87253/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Client Sample ID: CC06_092115_1300

Date Collected: 09/21/15 13:00

Date Received: 09/23/15 00:00

Lab Sample ID: 680-117013-1

Matrix: Solid

Percent Solids: 17.6

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.44	J q	5.6	0.24	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
2,3,7,8-TCDF	0.21	U	5.6	0.21	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,7,8-PeCDD	0.36	U	28	0.36	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,7,8-PeCDF	0.90	J q	28	0.24	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
2,3,4,7,8-PeCDF	0.87	J q	28	0.25	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,4,7,8-HxCDD	1.2	J q	28	0.21	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,6,7,8-HxCDD	1.7	J	28	0.20	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,7,8,9-HxCDD	1.9	J	28	0.18	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,4,7,8-HxCDF	1.5	J q	28	0.30	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,6,7,8-HxCDF	1.9	J	28	0.27	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,7,8,9-HxCDF	2.5	J	28	0.31	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
2,3,4,6,7,8-HxCDF	2.3	J B	28	0.29	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,4,6,7,8-HpCDD	2.7	J B	28	0.27	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,4,6,7,8-HpCDF	2.2	J	28	0.57	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
1,2,3,4,7,8,9-HpCDF	2.7	J q	28	0.70	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
OCDD	6.6	J B	56	0.29	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
OCDF	8.9	J B	56	0.55	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
Total TCDD	0.44	J q	5.6	0.24	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
Total TCDF	0.21	U	5.6	0.21	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
Total PeCDD	0.36	U	28	0.36	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
Total PeCDF	1.8	J q	28	0.25	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
Total HxCDD	4.7	J q	28	0.20	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
Total HxCDF	8.2	J q B	28	0.29	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
Total HpCDD	3.2	J B	28	0.27	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
Total HpCDF	4.9	J q	28	0.64	pg/g	⊗	09/25/15 13:00	09/29/15 23:16	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
13C-2,3,7,8-TCDD	64		40 - 135			09/25/15 13:00	09/29/15 23:16	1	
13C-2,3,7,8-TCDF	63		40 - 135			09/25/15 13:00	09/29/15 23:16	1	
13C-1,2,3,7,8-PeCDD	61		40 - 135			09/25/15 13:00	09/29/15 23:16	1	
13C-1,2,3,7,8-PeCDF	62		40 - 135			09/25/15 13:00	09/29/15 23:16	1	
13C-1,2,3,6,7,8-HxCDD	75		40 - 135			09/25/15 13:00	09/29/15 23:16	1	
13C-1,2,3,4,7,8-HxCDF	64		40 - 135			09/25/15 13:00	09/29/15 23:16	1	
13C-1,2,3,4,6,7,8-HpCDD	73		40 - 135			09/25/15 13:00	09/29/15 23:16	1	
13C-1,2,3,4,6,7,8-HpCDF	74		40 - 135			09/25/15 13:00	09/29/15 23:16	1	
13C-OCDD	74		40 - 135			09/25/15 13:00	09/29/15 23:16	1	

TestAmerica Savannah

Isotope Dilution Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
680-117013-1	CC06_092115_1300	64	63	61	62	75	64	73	74
LCS 320-87253/2-A	Lab Control Sample	58	59	59	60	66	60	68	70
LCSD 320-87253/3-A	Lab Control Sample Dup	63	62	59	60	65	57	68	67
MB 320-87253/1-A	Method Blank	65	64	62	63	74	65	74	74
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OCDD (40-135)							
680-117013-1	CC06_092115_1300	74							
LCS 320-87253/2-A	Lab Control Sample	71							
LCSD 320-87253/3-A	Lab Control Sample Dup	70							
MB 320-87253/1-A	Method Blank	74							

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
 TCDF = 13C-2,3,7,8-TCDF
 PeCDD = 13C-1,2,3,7,8-PeCDD
 PeCDF1 = 13C-1,2,3,7,8-PeCDF
 HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
 HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
 HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
 HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
 OCDD = 13C-OCDD

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-87253/1-A

Matrix: Solid

Analysis Batch: 87645

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87253

Analyte	MB		RL	EDL	Unit	D	Prepared		Analyzed	Dil Fac
	Result	Qualifier					Prepared	Analyzed		
2,3,7,8-TCDD	0.057	U	1.0	0.057	pg/g	09/25/15 13:00	09/29/15 12:53		1	
2,3,7,8-TCDF	0.039	U	1.0	0.039	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,7,8-PeCDD	0.073	U	5.0	0.073	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,7,8-PeCDF	0.053	U	5.0	0.053	pg/g	09/25/15 13:00	09/29/15 12:53		1	
2,3,4,7,8-PeCDF	0.055	U	5.0	0.055	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,4,7,8-HxCDD	0.049	U	5.0	0.049	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,6,7,8-HxCDD	0.048	U	5.0	0.048	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,7,8,9-HxCDD	0.042	U	5.0	0.042	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,4,7,8-HxCDF	0.076	U	5.0	0.076	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,6,7,8-HxCDF	0.069	U	5.0	0.069	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,7,8,9-HxCDF	0.074	U	5.0	0.074	pg/g	09/25/15 13:00	09/29/15 12:53		1	
2,3,4,6,7,8-HxCDF	0.120	J	5.0	0.075	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,4,6,7,8-HpCDD	0.144	J	5.0	0.060	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,4,6,7,8-HpCDF	0.43	U	5.0	0.43	pg/g	09/25/15 13:00	09/29/15 12:53		1	
1,2,3,4,7,8,9-HpCDF	0.54	U	5.0	0.54	pg/g	09/25/15 13:00	09/29/15 12:53		1	
OCDD	0.630	J	10	0.056	pg/g	09/25/15 13:00	09/29/15 12:53		1	
OCDF	0.962	J	10	0.10	pg/g	09/25/15 13:00	09/29/15 12:53		1	
Total TCDD	0.057	U	1.0	0.057	pg/g	09/25/15 13:00	09/29/15 12:53		1	
Total TCDF	0.039	U	1.0	0.039	pg/g	09/25/15 13:00	09/29/15 12:53		1	
Total PeCDD	0.073	U	5.0	0.073	pg/g	09/25/15 13:00	09/29/15 12:53		1	
Total PeCDF	0.055	U	5.0	0.055	pg/g	09/25/15 13:00	09/29/15 12:53		1	
Total HxCDD	0.049	U	5.0	0.049	pg/g	09/25/15 13:00	09/29/15 12:53		1	
Total HxCDF	0.120	J	5.0	0.075	pg/g	09/25/15 13:00	09/29/15 12:53		1	
Total HpCDD	0.144	J	5.0	0.060	pg/g	09/25/15 13:00	09/29/15 12:53		1	
Total HpCDF	0.54	U	5.0	0.54	pg/g	09/25/15 13:00	09/29/15 12:53		1	

MB MB

Isotope Dilution	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
			40 - 135	40 - 135			
13C-2,3,7,8-TCDD	65		40 - 135	40 - 135	09/25/15 13:00	09/29/15 12:53	1
13C-2,3,7,8-TCDF	64		40 - 135	40 - 135	09/25/15 13:00	09/29/15 12:53	1
13C-1,2,3,7,8-PeCDD	62		40 - 135	40 - 135	09/25/15 13:00	09/29/15 12:53	1
13C-1,2,3,7,8-PeCDF	63		40 - 135	40 - 135	09/25/15 13:00	09/29/15 12:53	1
13C-1,2,3,6,7,8-HxCDD	74		40 - 135	40 - 135	09/25/15 13:00	09/29/15 12:53	1
13C-1,2,3,4,7,8-HxCDF	65		40 - 135	40 - 135	09/25/15 13:00	09/29/15 12:53	1
13C-1,2,3,4,6,7,8-HpCDD	74		40 - 135	40 - 135	09/25/15 13:00	09/29/15 12:53	1
13C-1,2,3,4,6,7,8-HpCDF	74		40 - 135	40 - 135	09/25/15 13:00	09/29/15 12:53	1
13C-OCDD	74		40 - 135	40 - 135	09/25/15 13:00	09/29/15 12:53	1

Lab Sample ID: LCS 320-87253/2-A

Matrix: Solid

Analysis Batch: 87645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87253

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
2,3,7,8-TCDD	20.0	20.0		pg/g	100	77 - 130	
2,3,7,8-TCDF	20.0	20.1		pg/g	100	79 - 137	
1,2,3,7,8-PeCDD	100	104		pg/g	104	79 - 134	
1,2,3,7,8-PeCDF	100	111		pg/g	111	81 - 134	
2,3,4,7,8-PeCDF	100	109		pg/g	109	76 - 132	
1,2,3,4,7,8-HxCDD	100	91.9		pg/g	92	65 - 144	

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-87253/2-A

Matrix: Solid

Analysis Batch: 87645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87253

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
1,2,3,6,7,8-HxCDD	100	110		pg/g		110	73 - 147
1,2,3,7,8,9-HxCDD	100	100		pg/g		100	80 - 143
1,2,3,4,7,8-HxCDF	100	107		pg/g		107	72 - 140
1,2,3,6,7,8-HxCDF	100	120		pg/g		120	63 - 152
1,2,3,7,8,9-HxCDF	100	109		pg/g		109	72 - 152
2,3,4,6,7,8-HxCDF	100	114		pg/g		114	72 - 151
1,2,3,4,6,7,8-HpCDD	100	105		pg/g		105	86 - 134
1,2,3,4,6,7,8-HpCDF	100	104		pg/g		104	81 - 137
1,2,3,4,7,8,9-HpCDF	100	101		pg/g		101	79 - 139
OCDD	200	206		pg/g		103	80 - 137
OCDF	200	216		pg/g		108	75 - 141
Isotope Dilution	LCS	LCS	Limits				
	%Recovery	Qualifier					
13C-2,3,7,8-TCDD	58		40 - 135				
13C-2,3,7,8-TCDF	59		40 - 135				
13C-1,2,3,7,8-PeCDD	59		40 - 135				
13C-1,2,3,7,8-PeCDF	60		40 - 135				
13C-1,2,3,6,7,8-HxCDD	66		40 - 135				
13C-1,2,3,4,7,8-HxCDF	60		40 - 135				
13C-1,2,3,4,6,7,8-HpCDD	68		40 - 135				
13C-1,2,3,4,6,7,8-HpCDF	70		40 - 135				
13C-OCDD	71		40 - 135				

Lab Sample ID: LCSD 320-87253/3-A

Matrix: Solid

Analysis Batch: 87645

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87253

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
2,3,7,8-TCDD	20.0	20.0		pg/g		100	77 - 130	0	20
2,3,7,8-TCDF	20.0	20.0		pg/g		100	79 - 137	0	20
1,2,3,7,8-PeCDD	100	105		pg/g		105	79 - 134	1	20
1,2,3,7,8-PeCDF	100	110		pg/g		110	81 - 134	1	20
2,3,4,7,8-PeCDF	100	102		pg/g		102	76 - 132	6	20
1,2,3,4,7,8-HxCDD	100	85.4		pg/g		85	65 - 144	7	20
1,2,3,6,7,8-HxCDD	100	111		pg/g		111	73 - 147	0	20
1,2,3,7,8,9-HxCDD	100	105		pg/g		105	80 - 143	5	20
1,2,3,4,7,8-HxCDF	100	107		pg/g		107	72 - 140	0	20
1,2,3,6,7,8-HxCDF	100	122		pg/g		122	63 - 152	2	20
1,2,3,7,8,9-HxCDF	100	118		pg/g		118	72 - 152	8	20
2,3,4,6,7,8-HxCDF	100	122		pg/g		122	72 - 151	7	20
1,2,3,4,6,7,8-HpCDD	100	106		pg/g		106	86 - 134	1	20
1,2,3,4,6,7,8-HpCDF	100	105		pg/g		105	81 - 137	1	20
1,2,3,4,7,8,9-HpCDF	100	105		pg/g		105	79 - 139	4	20
OCDD	200	210		pg/g		105	80 - 137	2	20
OCDF	200	219		pg/g		109	75 - 141	2	20
Isotope Dilution	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
13C-2,3,7,8-TCDD	63		40 - 135						

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-87253/3-A

Matrix: Solid

Analysis Batch: 87645

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87253

<i>Isotope Dilution</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C-2,3,7,8-TCDF	62		40 - 135
13C-1,2,3,7,8-PeCDD	59		40 - 135
13C-1,2,3,7,8-PeCDF	60		40 - 135
13C-1,2,3,6,7,8-HxCDD	65		40 - 135
13C-1,2,3,4,7,8-HxCDF	57		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	68		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	67		40 - 135
13C-OCDD	70		40 - 135

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Specialty Organics

Prep Batch: 87253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-117013-1	CC06_092115_1300	Total/NA	Solid	8290	
LCS 320-87253/2-A	Lab Control Sample	Total/NA	Solid	8290	
LCSD 320-87253/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	
MB 320-87253/1-A	Method Blank	Total/NA	Solid	8290	

Analysis Batch: 87645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-87253/2-A	Lab Control Sample	Total/NA	Solid	8290A	87253
LCSD 320-87253/3-A	Lab Control Sample Dup	Total/NA	Solid	8290A	87253
MB 320-87253/1-A	Method Blank	Total/NA	Solid	8290A	87253

Analysis Batch: 87651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-117013-1	CC06_092115_1300	Total/NA	Solid	8290A	87253

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Client Sample ID: CC06_092115_1300

Lab Sample ID: 680-117013-1

Date Collected: 09/21/15 13:00

Matrix: Solid

Date Received: 09/23/15 00:00

Percent Solids: 17.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.10 g	20 uL	87253	09/25/15 13:00	GDB	TAL SAC
Total/NA	Analysis	8290A		1	10.10 g	20 uL	87651	09/29/15 23:16	ALM	TAL SAC
		Instrument ID:	10D5							

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TestAmerica Savannah

**Chain of
Custody Record**
Sampler ID EP

Temperature on Receipt _____

Drinking Water? Yes No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

 TESTAMERICA -
 ARVADA
 4955 YARROW ST
 ARVADA, CO 80002

TAL-4124-280 (0508)

Client CHW
~~CHARTERED WESTON~~ SOLUTIONSAddress 1435 GARRISON ST STE 100,
LAKWOOD State CO Zip Code 80215City LAKWOOD Project Name and Location (State) GOLD KING MINE, CO

Contract/Purchase Order/Quote No.

Project Manager MIRIA PRYHODA
STEVE WAY PAP

Telephone Number (Area Code)/Fax Number

Site Contact _____ Lab Contact _____

Carrier/Waybill Number 8070 6824 7018Matrix H2O2WContainers & Preservatives 12

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fe d Ex #
8070 6824 7007

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE GOLD KING MINE	PROJECT NO.	PROJECT LOCATION (STATE) CO	MATRIX TYPE	REQUIRED ANALYSIS							PAGE 1 OF 1					
TAL (LAB) PROJECT MANAGER DAN WALL EPA/HQDPA	P.O. NUMBER	CONTRACT NO.									STANDARD REPORT DELIVERY					
CLIENT (SITE) PM MOIRA WESTON DAN WALL EPA/HQDPA	CLIENT PHONE 303.729.6100	CLIENT FAX X (610)									DATE DUE _____					
CLIENT NAME WESTON EPA SOLUTIONS	CLIENT E-MAIL WALL.DAN@EPA.GOV	CLIENT FAX 9/21/15									EXPEDITED REPORT DELIVERY (SURCHARGE) <input checked="" type="checkbox"/>					
CLIENT ADDRESS 1435 Garrison St Ste 100 Lakewood, CO 80215	COMPANY CONTRACTING THIS WORK (if applicable) WESTON SOUTHERN										DATE DUE ASAP					
SAMPLE	SAMPLE IDENTIFICATION		COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMIOLID	AR	NONAQUEOUS/LIQUEFIED (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED							REMARKS	
DATE 9/21/15	TIME 1300	CC06-092115_1300	G X					5	4	2	1	1	1	3	-	
DATE 9/22/15	TIME 1300	Trip blanks test 9/21/15	G X													low 9/21/15
DATE 9/21/15	TIME 1300	Trip blank	G X													2
<p>*FASTEST POSSIBLE TAT + FASTEST POSSIBLE LEVEL 4 DATA PKG *</p>																
<p><i>Cal Bough 9/21/15</i></p>																

RELINQUISHED BY: (SIGNATURE) <i>ELIOTT P. TROTTER</i>	DATE 9/21/15	TIME 16:40	RELINQUISHED BY: (SIGNATURE) <i>John J. L.</i>	DATE 9/21/15	TIME 1500	RELINQUISHED BY: (SIGNATURE) <i>John J. L.</i>	DATE 9/23/15	TIME 10:30	
RECEIVED BY: (SIGNATURE) <i>Cal Bough</i>	DATE 9/21/15	TIME 1640	RECEIVED BY: (SIGNATURE) <i>FEDEX / Michael W.</i>	DATE 9/23/15	TIME 9:10	RECEIVED BY: (SIGNATURE)	DATE	TIME	
LABORATORY USE ONLY									
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Michael W.</i>	DATE 9/24/15	TIME 08:45	CUSTODY INTACT YES <input type="radio"/> NO <input checked="" type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS <i>O-1385-1011 inf 1415 9/23/15</i>			

13 12 11 10 9 8 7 6 5 4 3 2 1

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler		Lab PM Hoffman, Sheila B		Carrier Tracking No(s)		COC No 280-320829.1	
Client Contact Shipping/Receiving		Phone:		E-Mail sheila.hoffman@testamericainc.com				Page Page 1 of 1	
Company TestAmerica Laboratories, Inc.									
Address: 880 Riverside Parkway, City: West Sacramento State, Zip: CA, 95605 Phone: 916-373-5600(Tel) 916-372-1059(Fax) Email:		Due Date Requested: 10/6/2015 TAT Requested (days):		PO #		Analysis Requested		Preservation Codes:	
Project Name: Gold King Mine - Region 8		Project #: 68015233		WO #				A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchior H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)
Site		SSOW#						Other:	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, B=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	8290/A/B/290_P_Sep 17 Isomers & Totals	Total Number of containers	
CC06_092115_1300 (680-117013-3)		9/21/15	13 00 Mountain		Water	X		2	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:	Time:			Method of Shipment:			
Relinquished by 	Date/Time 9/23/15 14:30	Company TA	Received by 			Date/Time: 9/24/15 930	Company TAWS		
Relinquished by	Date/Time	Company	Received by:			Date/Time:	Company		
Relinquished by	Date/Time	Company	Received by:			Date/Time	Company		
Custody Seals Intact: A Yes A No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 8.5						

Chain of Custody Record



TestAmerica
THE LEADERS IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler		Lab PM Hoffman, Sheila B		Carrier Tracking No(s)		COC No 680-403711 1	
Client Contact Shipping/Receiving		Phone		E-Mail sheila.hoffman@testamericainc.com					
Company TestAmerica Laboratories, Inc								Job # 680-117013-2	
Address 880 Riverside Parkway, City West Sacramento		Due Date Requested: 10/6/2015				Analysis Requested		Preservation Codes:	
State, Zip CA, 95605		TAT Requested (days):						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acelone V - MCAA W - ph 4-5 Z - other (specify)
Phone 916-373-5600(Tel) 916-372-1059(Fax)		PO #						Other,	
Email		WO #							
Project Name Gold King Mine - Region 8		Project # 68015233							
Site		SSOW#							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste, O=tissue, A=air)	Field Filtered Sample (Yes or No)	10/20/2015 08290_P_Sox_17 Isomers & Totals	Total Number of Containers	Special Instructions/Note:
CC06_09212015_1300 (680-117013-1)		9/21/15	13:00 Mountain	Solid	X				
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements							
Empty Kit Relinquished by:		Date		Time		Method of Shipment.			
Relinquished by		Date/Time 9/23/15 1500	Company TA	Received by Rose Paguyo	Date/Time 9/24/15 9:30	Company TAWs			
Relinquished by		Date/Time	Company	Received by	Date/Time	Company			
Relinquished by		Date/Time	Company	Received by	Date/Time	Company			
Custody Seals Intact: △ Yes △ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks 0.3			

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 680-117013-2

Login Number: 117013

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	Did not receive the water portion for this sample
Samples are received within Holding Time.	False	Waters: cr-6/NO3 OFH
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 680-117013-2

Login Number: 117013

List Number: 4

Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento

List Creation: 09/24/15 03:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Weston Solutions, Inc.

Project/Site: Gold King Mine - Region 8

TestAmerica Job ID: 680-117013-2

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Colorado	State Program	8	N/A	12-31-15

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-15
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-16
Colorado	State Program	8	N/A	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-29-16
Illinois	NELAP	5	200060	03-17-16
Kansas	NELAP	7	E-10375	10-31-15
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-16
Nevada	State Program	9	CA44	07-31-16
New Jersey	NELAP	2	CA005	09-30-15 *
New York	NELAP	2	11666	04-01-16
Oregon	NELAP	10	CA200005	01-29-16
Pennsylvania	NELAP	3	9947	03-31-16
Texas	NELAP	6	T104704399-15-9	05-31-16
US Fish & Wildlife	Federal		LE148388-0	02-28-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-16
Virginia	NELAP Secondary AB	3	460278	03-14-16
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-15
Wyoming	State Program	8	8TMS-Q	01-29-16

* Certification renewal pending - certification considered valid.

TestAmerica Savannah